

PATENT

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

<i>In re</i> Application of)	
)	Group Art Unit: 2112
Amit Mate)	
)	Examiner: TORRES, JOSEPH D.
Serial No.: 10/030,207)	
)	Atty. Docket: 004770.02087
Filed: August 10, 2004)	
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For: METHOD AND SYSTEM FOR DATA RECEPTION ACKNOWLEDGEMENT

EXAMINER'S AMENDMENT

23. (Currently Amended) A method comprising:

receiving a series of datagrams;

determining which of said series of datagrams have been incorrectly received;

generating a plurality of data units, each data unit having a status bit indicative of

the status of the data unit and a plurality of spacing bits, wherein the plurality of spacing bits
from the plurality of data units together form a binary number, the binary number being the
spacing between one incorrectly received datagram and a succeeding incorrectly received
datagram; and

assembling said plurality of data units together into an acknowledgement
message.

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24. (Canceled)

25. (Previously Presented) A method as claimed in claim 23, wherein one value of a
status bit is indicative of its corresponding data unit not being the last data unit of said plurality
of data units whose spacing bits together are said binary number.

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between one incorrectly received
datagram and a succeeding incorrectly
received datagram

26. (Currently Amended) A method as claimed in claim 23, wherein one value of a status bit is indicative of its corresponding data unit being the last data unit of said plurality of data units whose spacing bits are said binary number.

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27. (Previously Presented) A method as claimed in claim 26, wherein the said predetermined number is one.

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28. (Currently Amended) A method as claimed in claim 23, wherein the acknowledgement message includes data identifying the set of datagrams whose reception is described by the message.

29. (Previously Presented) A method as claimed in claim 23, wherein each data unit consists of four or more bits.

30. (Previously Presented) A method as claimed in claim 29, wherein each datagram consists of four bits.

31. (Previously Presented) A method as claimed in claim 23, comprising the further step of transmitting said acknowledgement message to a transmitter of the datagrams.

32. (Currently Amended) A method as claimed claim 23, further comprising transmitting the acknowledgement message to a transmitter over a radio link.

33. (Previously Presented) A method as claimed in claim 32, wherein the radio link is a cellular telephone radio link.

34. (Previously Presented) A method as claimed in claim 33, wherein the radio link is a wideband code division multiple access link.

35. (Currently Amended) An apparatus comprising:

a datagram checking unit configured to determine which of a plurality of datagrams received from a transmitter have been incorrectly received; and

an acknowledgement message generator configured to generate acknowledgement messages, each acknowledgement message comprising a plurality of data units, each data unit comprising:

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a status bit indicative of the status of the data unit; and

a plurality of spacing bits, wherein the plurality of spacing bits from the plurality of data units together form a binary number, the binary number being the spacing between one incorrectly received datagram and a succeeding incorrectly received datagram.

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36. (Currently Amended) An apparatus as claimed in claim 35, comprising a transmitting unit configured to transmit the acknowledgement messages to the transmitter.

37. (Previously Presented) An apparatus as claimed in claim 35, comprising a memory connected to the datagram checking unit configured to store information indicating which of the datagrams has been incorrectly received.

38. (Previously Presented) An apparatus as claimed in claim 35, wherein each datagram comprises checksum information and the datagram checking unit is capable of calculating a checksum for a received datagram and comparing that checksum with the checksum information comprised in the datagram to determine whether the datagram is correctly received.

39. (Previously Presented) An apparatus as claimed in claim 35, wherein each data unit consists of four bits.

40. (Previously Presented) An apparatus as claimed in claim 35, wherein the acknowledgement generator is implemented in hardware.

41. (Previously Presented) An apparatus as claimed in claim 35, wherein the apparatus is a radio receiver.

42. (Currently Amended) An apparatus as claimed in claim 35, wherein the apparatus is a cellular radio terminal.

43. (Currently Amended) Apparatus comprising:
means for determining which of a series of datagrams received from a transmitter have been incorrectly received; and
means for generating acknowledgement messages, each acknowledgement message comprising a plurality of data units, each data unit comprising:
a status bit indicative of the status of the data unit; and
a plurality of spacing bits, wherein the plurality of spacing bits from the plurality of data units together form a binary number, the binary number being the spacing between one incorrectly received datagram and a succeeding incorrectly received datagram.

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44-48. (Canceled)

49. A method as claimed in claim 23, comprising generating at least one further data unit, said at least one further data unit indicating a location of a first incorrectly received datagram.

50. A method as claimed in claim 25, wherein said one value of the status bit indicative of its corresponding data unit not being the last data unit is zero.

51. A method as claimed in claim 23, generating a burst data unit having predetermined binary bits to indicate a burst of incorrectly received datagrams and one or more burst data units, indicating the length of the burst of incorrectly received datagrams.

52. A method as claimed in claim 51, wherein said predetermined binary bits are 0001.

53. Apparatus as claimed in claim 35, wherein said acknowledgement message generator is configured to generate at least one further data unit indicating a location of a first incorrectly received datagram.

54. Apparatus as claimed in claim 35, wherein one value of a status bit is indicative of its corresponding data unit not being the last data unit of said plurality of data units whose spacing bits together are said binary number.

55. Apparatus as claimed in claim 54, wherein said one value of the status bit indicative of its corresponding data unit not being the last data unit is zero.

56. Apparatus as claimed in claim 35, wherein said acknowledgement message generator is configured to generate a burst data unit having predetermined binary bits to indicate a burst of incorrectly received datagrams and one or more burst data units, indicating the length of the burst of incorrectly received datagrams.

57. Apparatus as claimed in claim 56, wherein said predetermined binary bits are 0001.

58. Apparatus as claimed in claim 35, wherein one value of a status bit is indicative of its corresponding data unit being the last data unit of said plurality of data units whose spacing bits are said binary number.

59. Apparatus as claimed in claim 58, wherein the said predetermined number is one.